

# Claims

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A method for wireless data communication between a wireless device, which comprises means for short-range data communication, and an electronic device, **characterised** in that the method includes the following method steps:

- 5    - in a general purpose expansion memory location of the electronic device there is mounted a data communication device having means for short-range wireless data communication;
- a short-range wireless data communication link between the wireless device and the data communication device is activated; and
- 10   - data is transmitted between the data communication device and the wireless device.
2. A method according to claim 1, **characterised** in that in order to enable the data transmission from the electronic device to the wireless device the following method steps are performed after the installation of the data communication device
- 15   and before the activation of the data communication link:
  - data is input to the electronic device; and
  - the data is processed in the data communication device installed in an expansion memory location.
3. A method according to claim 2, **characterised** in that the data processing in
- 20   the data communication device is made by instructions from the electronic device.
4. A method according to claim 1, **characterised** in that the data communication between the data communication device and the wireless device is made over an LPRF link.
5. A method according to claim 1, **characterised** in that that the data communi-
- 25   cation between the data communication device and the wireless device is made on the basis of instructions given by the wireless device.
6. A method according to claim 1, **characterised** in that the data communication between the data communication device and the wireless device is made automati-
- cally on the basis of the logic of the data communication device so that it is acti-
- 30   vated by the storage of data.
7. A method according to claim 2, **characterised** in that the input data is a picture reflected as light through the objective of a camera.

8. A communications device for wireless data communication between a wireless device, which has means for a short-range data link, and an electronic device, **characterised** in that the data communication device comprises:
- a controller connectable to a general purpose interface of an expansion memory location of the electronic device, for controlling the operation of the data communication device,
  - a short-range wireless data communication unit and an antenna for data communication; and
  - a memory for storing the communicated data.
9. A data communication device according to claim 8, **characterised** in that the controller of the data communication device comprises:
- a serial to parallel converter for converting parallel mode information of the memory into serial mode used by the short-range data communication unit, and correspondingly the serial mode information into the parallel mode;
  - a splitter for connecting a parallel mode write and read connection of the memory alternatively to the interface of the expansion memory location of the electronic device or to the serial to parallel converter for a short-range data communication link; and
  - a microcontroller for controlling the serial to parallel converter and the splitter.
10. A data communication device according to claim 8, **characterised** in that the short-range data communication unit is a LPRF unit.
11. A data communication device according to claim 10, **characterised** in that it comprises means for supplying a busy signal to the electronic device when the memory is processed by the radio link, and a busy signal to the LPRF unit when the memory is processed by the electronic device.
12. A data communication device according to claim 10, **characterised** in that it comprises means for giving to the microcontroller
- an operation enable signal enabling the operation of the data communication device when the memory is processed by the electronic device, and
  - a busy signal when the LPRF unit is occupied for data communication.

Accepted